

Facility Risk Assessment, FRA-AO 01 (Telecommunication Nodes)

Name(s) of Risk Team Members: T.Baldwin, A.McGill, J.Fallon, L.Nieves, A.Sumereau, M.Heinrich	Point Value → Parameter ↓	1	2	3	4	5
Area/Facility Description Title: Telecommunication Facilities of BNL	Occupancy or Use	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Area/Facility # (if applicable): FRA-AO-01						
Area/Facility Description: Telecommunication Node Facilities – Bldg.449, Bldg.537 and Nodes within Bldg.703 basement, 1005S basement, offsite B.805 Colabro Airport, Ramsey Rd., and telephone equipment in B.462 with Verizon. General facility issues and electrical issues and fire issues.	Severity	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
	Likelihood	Very Unlikely	Unlikely	Possible	Probable	Multiple
Approved by: Susan McKeon Date: 9/15/2006 Rev.#:0						
Reason for Revision (if applicable):				Comments:		

			Risk with Controls in Place					Ris
Physical Item or Activity	Hazard(s)	Control(s)	Use A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A
Close proximity to UPS with sealed lead acid batteries	Old batteries could fail and leak.	Storage controls, ventilation, labelling, sealed batteries, gel cells, schematics from vendor	4	3	5	60		
Maintenance of batteries		Proper PPE include gloves, goggles, apron/coveralls.	3	2	3	18		
Close proximity in facility to electric panels, cables, wiring, cable trays, bus work, wall sockets.	Shock,electrocution, arc flash injuries, burn	Main service to building is 600 amp, but no open buses. Proper grounding, proper installation, signs, postings. Qualified electricians for jobs when appropriate.	5	3	2	30		
Working with powered equipment, computers/servers		Guarding, training, work planning,	4	1	2	8		

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Physical Item or Activity	Hazard(s)	Control(s)	Use A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A
Electrical fire in facility	Burns from fire, smoke inhalation, halon inhalation	Tier 1 Safety Inspections, Plant Engineering Preventive Maintenance Programs, Fire detection and suppression systems, equipment protective systems. Maintenance, electrical & life safety code compliance, emergency procedures, BNL Emergency Services, signs/postings, marked exits, housekeeping, custodial services.	4	2	2	16		
Maintaining BNL mission critical equipment-troubleshoot, diagnose, repair	Hurrying causes accidents, numerous trades responding to crisis increases complexity risks.	Property Protection Area status with cardreader and touchpad access. Alarm sensor phone callouts for heat/cold, water/humidity to Staff with time for repair. Concrete block wall divide between main room and battery bank is a 2 hour fire barrier.	1	2	1	2		
Working in small closets/storage areas onsite in tight spaces also used by building tenants and custodians.	Falls, trips, due to lack of room to extend ladder safely to reach equipment. Electrical shock due to unsafe, crowded storage, ie.mops,	Housekeeping agreement with other tenants of area, including involvement of Custodian and Supervisor, with ITD ESH Coordinator. Identification of all areas onsite with telcom/network equipment. Labelling to inform BNL staff that equipment is energized, has backup power, has moving parts, such as a fan.	4	2	2	16		
*Risk:	0 to 20	21 to 40	41-60		61 to 80		81 or greater	
	Negligible	Acceptable	Moderate		Substantial		Intolerable	

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Further Description of Controls added to Reduce Risk:

Lessons Learned from this Risk Assessment, Improvements, Positive Feedback: There are areas onsite tended to by contractors only – the cell towers with Sprint, Nextel, AT&T. Discussion between ITD Director and Plant Engineering ALD clarified responsibility for those areas from the Purchase Order to the presence of technicians onsite. There are no “gray areas” that could put vendor employees at risk or unaware of BNL safety requirements because 1 department, Plant Engineering, provides oversight.

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